

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021723\  
 Data File : VN076738.D  
 Acq On : 17 Feb 2023 16:40  
 Operator : JC\MD  
 Sample : 01547-04RE 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-4RE

Quant Time: Feb 18 02:11:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N021523W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Feb 16 01:08:46 2023  
 Response via : Initial Calibration

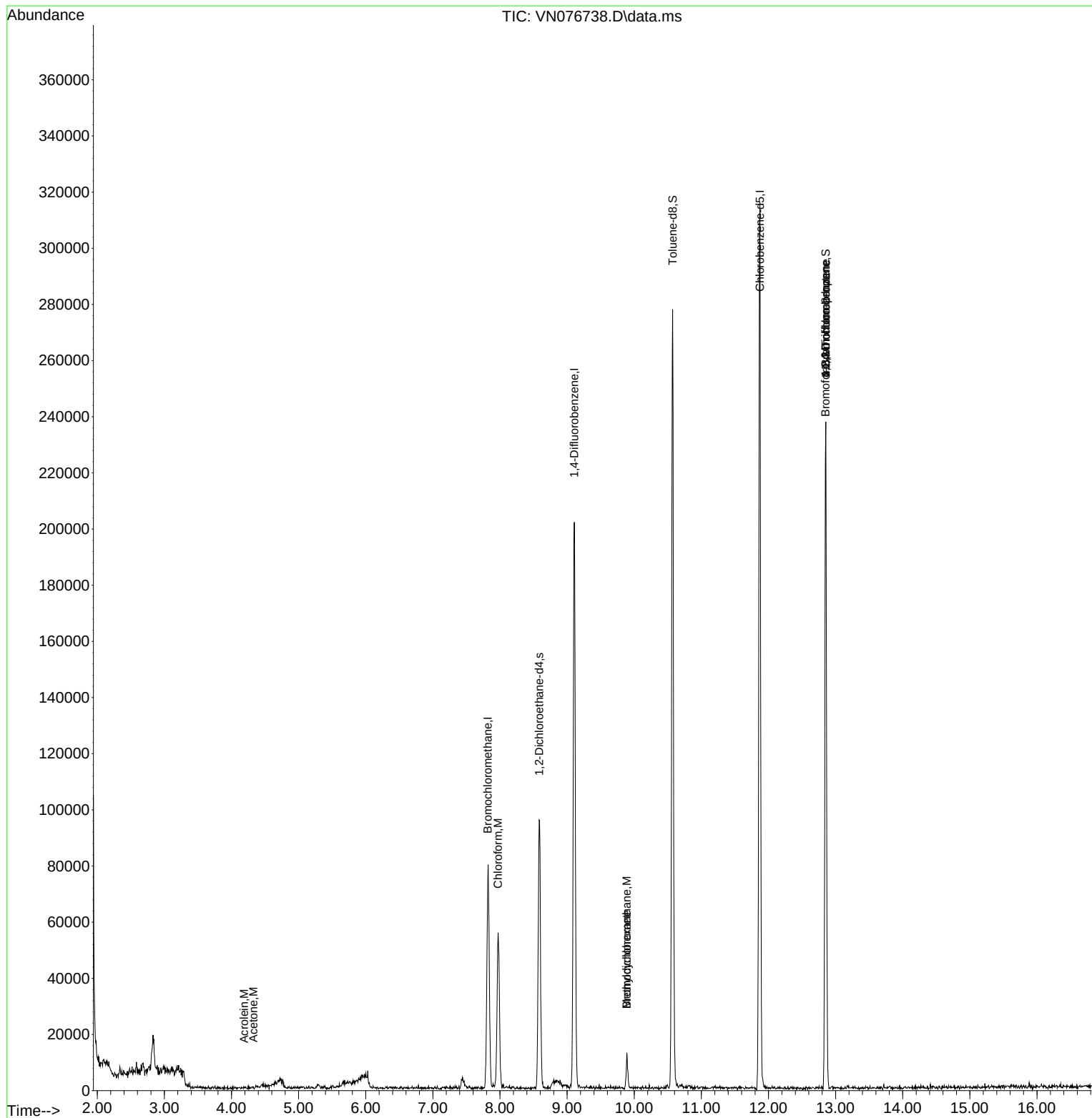
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-----------------------------|--------|-------|----------|----------|--------|-----------|
| -----                       |        |       |          |          |        |           |
| Internal Standards          |        |       |          |          |        |           |
| 1) Bromochloromethane       | 7.819  | 128   | 24096    | 30.000   | ug/l   | 0.00      |
| 28) 1,4-Difluorobenzene     | 9.107  | 114   | 167870   | 30.000   | ug/l   | 0.00      |
| 57) Chlorobenzene-d5        | 11.872 | 117   | 177407   | 30.000   | ug/l   | 0.00      |
| System Monitoring Compounds |        |       |          |          |        |           |
| 27) 1,2-Dichloroethane-d4   | 8.584  | 65    | 75678    | 34.339   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 114.467%# |
| 60) 4-Bromofluorobenzene    | 12.854 | 95    | 74934    | 23.880   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 79.600%   |
| 63) Toluene-d8              | 10.572 | 98    | 183586   | 29.544   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.467%   |
| Target Compounds            |        |       |          |          |        |           |
|                             |        |       |          |          | Qvalue |           |
| 13) Acrolein                | 4.190  | 56    | 119      | 0.206    | ug/l # | 15        |
| 15) Acetone                 | 4.325  | 58    | 112      | 0.231    | ug/l # | 1         |
| 25) Chloroform              | 7.972  | 83    | 51033    | 9.885    | ug/l   | 91        |
| 38) Methylcyclohexane       | 9.889  | 83    | 6482     | 1.345    | ug/l # | 18        |
| 41) Bromodichloromethane    | 9.889  | 83    | 6482     | 1.595    | ug/l # | 98        |
| 56) Bromoform               | 12.848 | 173   | 506      | 0.243    | ug/l # | 1         |
| 72) 1,2,3-Trichloropropane  | 12.854 | 75    | 42518    | 11.385   | ug/l   | 1         |
| 77) t-1,4-Dichloro-2-butene | 12.854 | 75    | 42518    | 35.436   | ug/l # | 9         |
| -----                       |        |       |          |          |        |           |

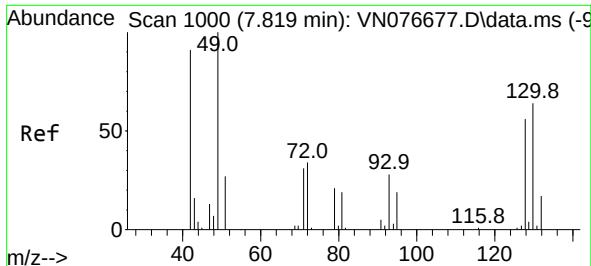
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Feb 16 01:08:46 2023  
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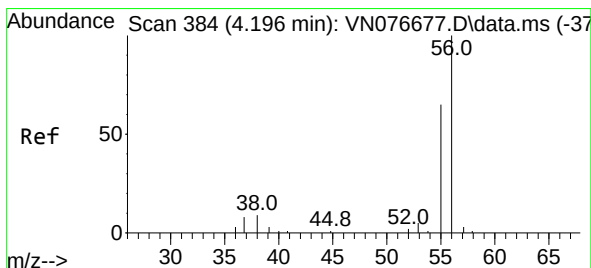
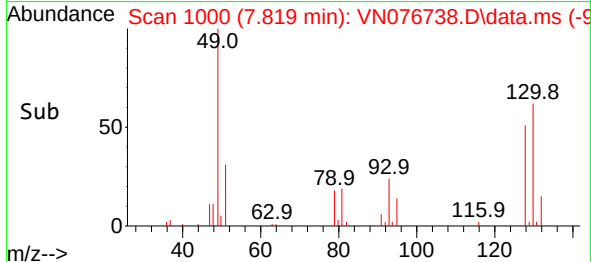
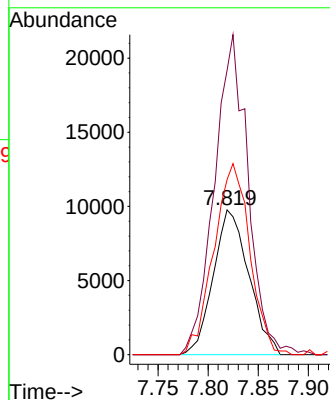
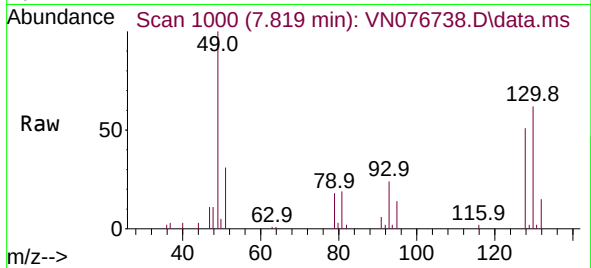




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.819 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

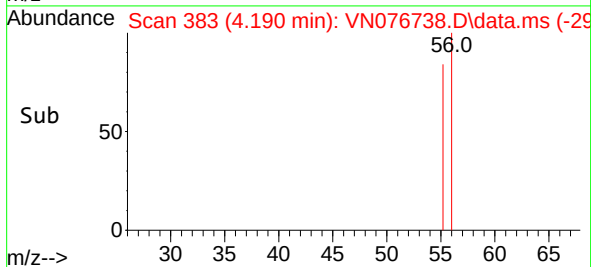
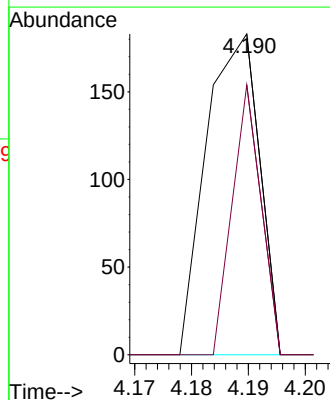
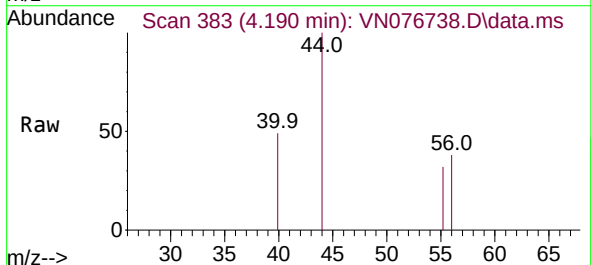
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-4RE

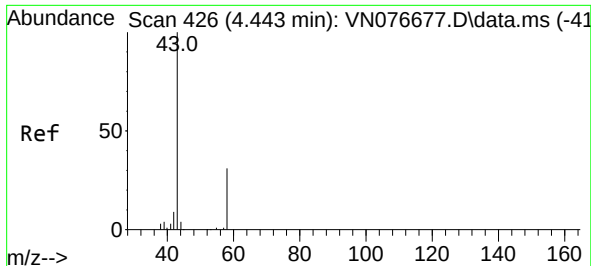
Tgt Ion:128 Resp: 24096  
Ion Ratio Lower Upper  
128 100  
49 207.5 0.0 461.8  
130 133.3 0.0 295.3



#13  
Acrolein  
Concen: 0.206 ug/l  
RT: 4.190 min Scan# 383  
Delta R.T. -0.006 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

Tgt Ion: 56 Resp: 119  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.0 82.4#





#15

Acetone

Concen: 0.231 ug/l

RT: 4.325 min Scan# 406

Delta R.T. -0.118 min

Lab File: VN076738.D

Acq: 17 Feb 2023 16:40

Instrument :

MSVOA\_N

ClientSampleId :

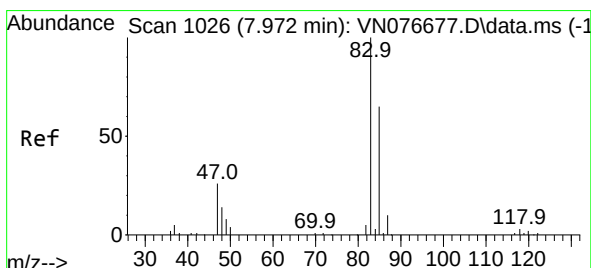
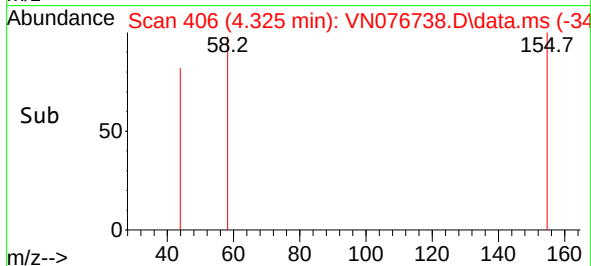
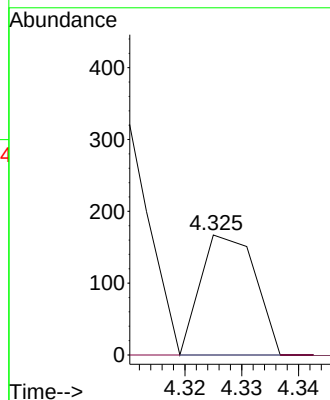
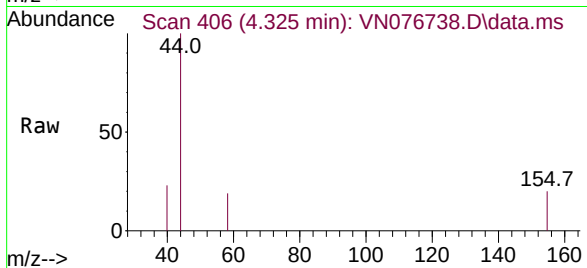
14B-4RE

Tgt Ion: 58 Resp: 112

Ion Ratio Lower Upper

58 100

43 0.0 255.4 383.0#



#25

Chloroform

Concen: 9.885 ug/l

RT: 7.972 min Scan# 1026

Delta R.T. 0.000 min

Lab File: VN076738.D

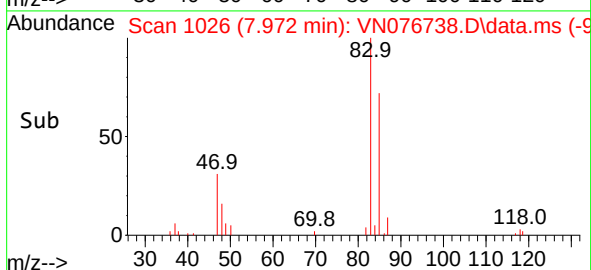
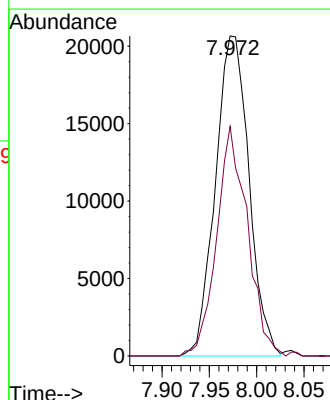
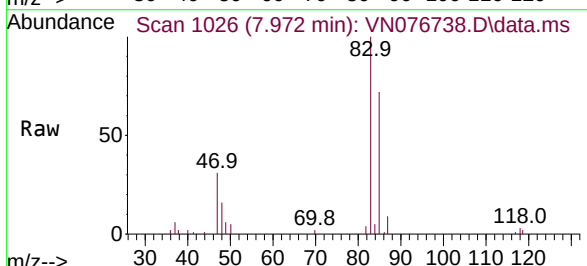
Acq: 17 Feb 2023 16:40

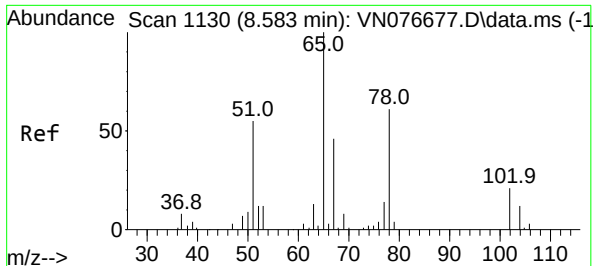
Tgt Ion: 83 Resp: 51033

Ion Ratio Lower Upper

83 100

85 71.7 51.8 77.6

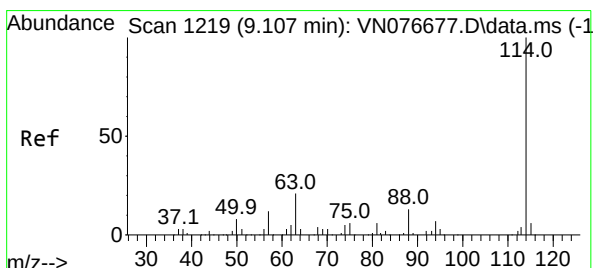
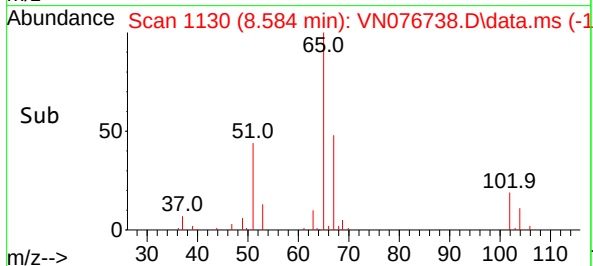
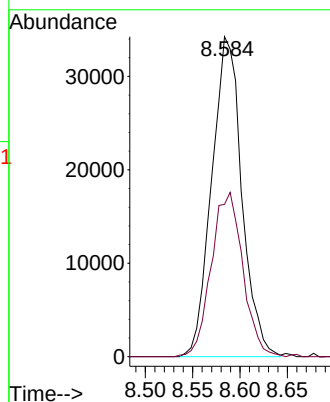
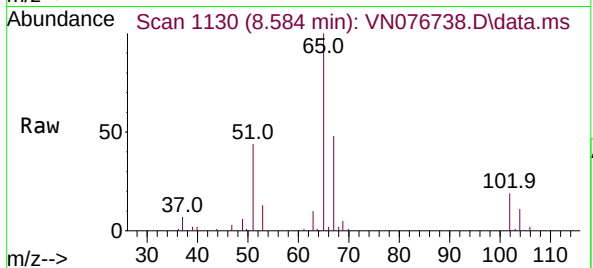




#27  
1,2-Dichloroethane-d4  
Concen: 34.339 ug/l  
RT: 8.584 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

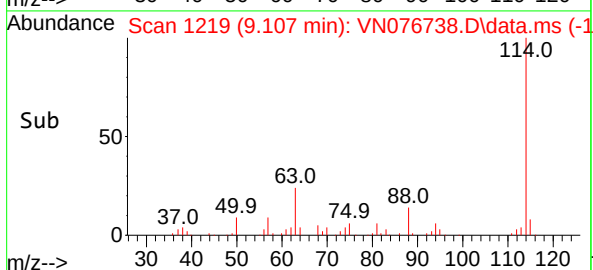
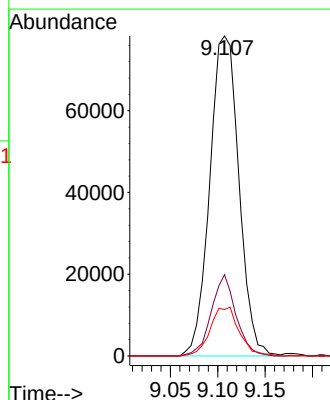
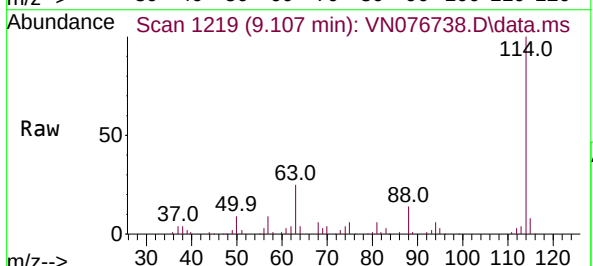
Instrument :  
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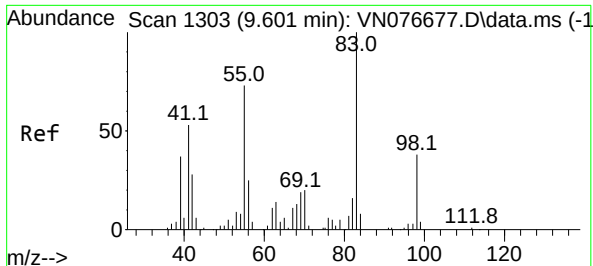
Tgt Ion: 65 Resp: 75678  
Ion Ratio Lower Upper  
65 100  
67 53.7 40.9 61.3



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.107 min Scan# 1219  
Delta R.T. 0.000 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

Tgt Ion: 114 Resp: 167870  
Ion Ratio Lower Upper  
114 100  
63 21.5 17.0 25.4  
88 15.1 11.6 17.4





#38

Methylcyclohexane

Concen: 1.345 ug/l

RT: 9.889 min Scan# 1352

Delta R.T. 0.288 min

Lab File: VN076738.D

Acq: 17 Feb 2023 16:40

Instrument :

MSVOA\_N

ClientSampleId :

14B-4RE

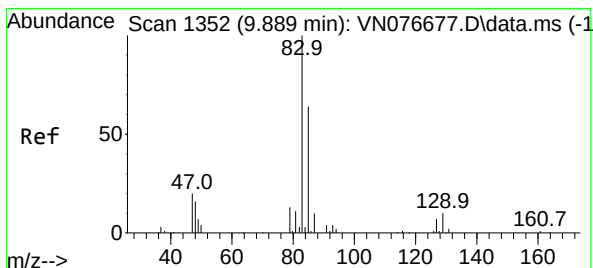
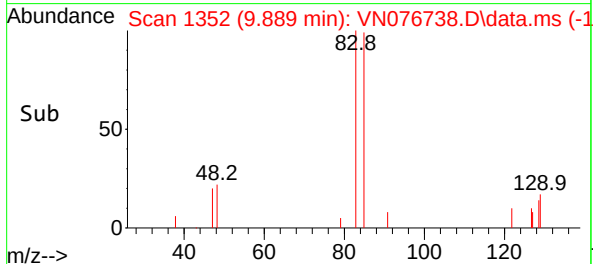
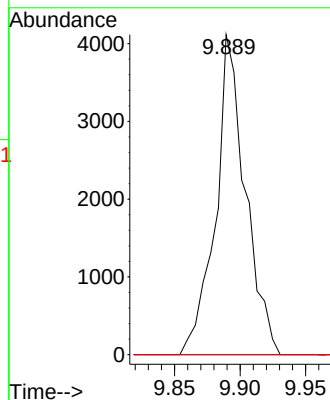
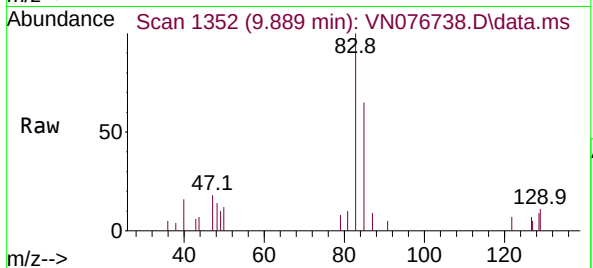
Tgt Ion: 83 Resp: 6482

Ion Ratio Lower Upper

83 100

55 0.0 37.6 112.9#

98 0.0 24.1 72.4#



#41

Bromodichloromethane

Concen: 1.595 ug/l

RT: 9.889 min Scan# 1352

Delta R.T. 0.000 min

Lab File: VN076738.D

Acq: 17 Feb 2023 16:40

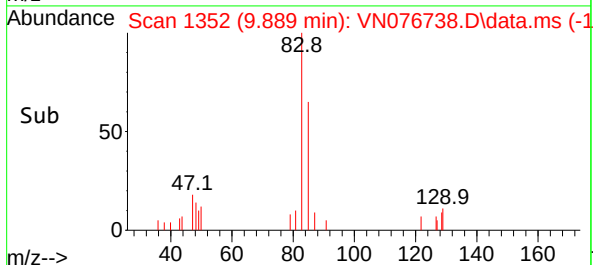
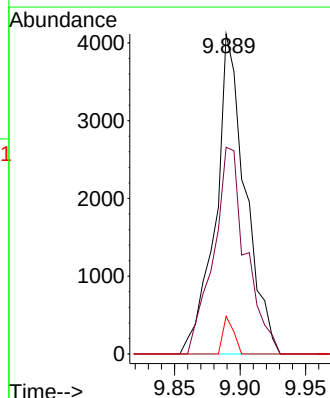
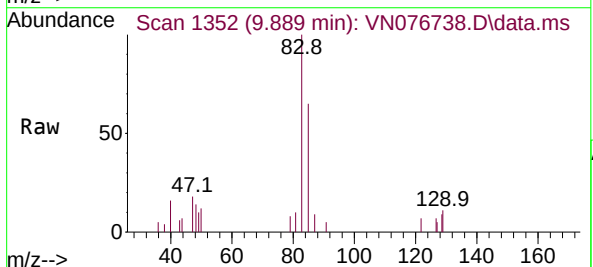
Tgt Ion: 83 Resp: 6482

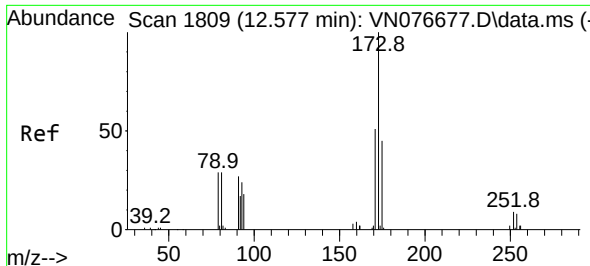
Ion Ratio Lower Upper

83 100

85 64.6 51.0 76.4

127 11.7 6.2 9.2#

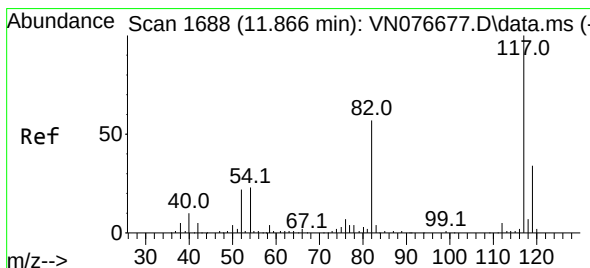
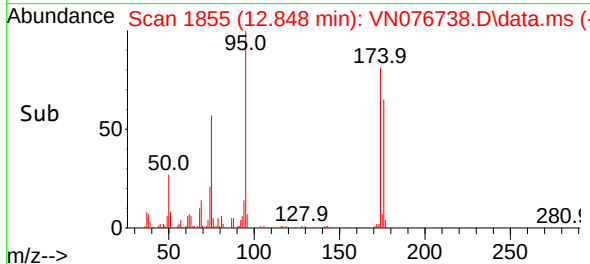
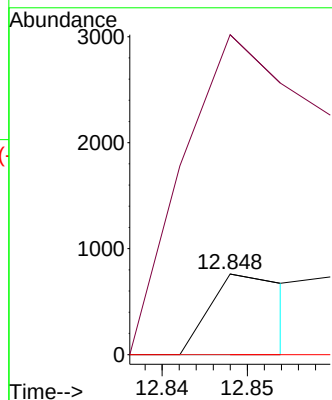
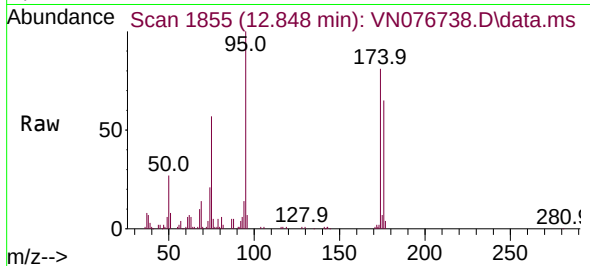




#56  
Bromoform  
Concen: 0.243 ug/l  
RT: 12.848 min Scan# 1809  
Delta R.T. 0.271 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

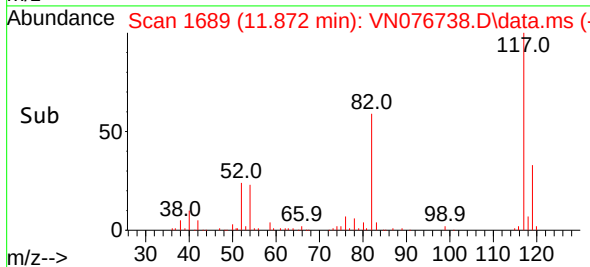
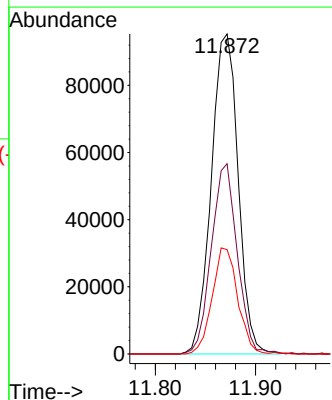
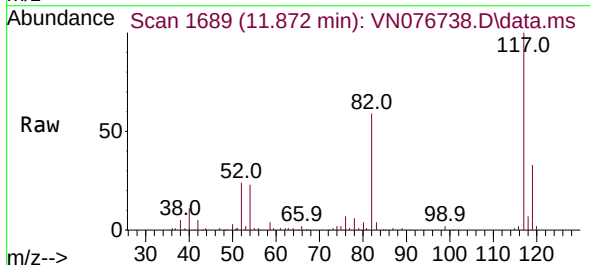
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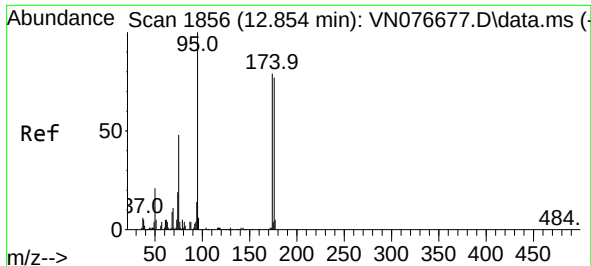
Tgt Ion:173 Resp: 506  
Ion Ratio Lower Upper  
173 100  
175 873.7 37.8 56.6#  
254 0.0 7.3 10.9#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.872 min Scan# 1689  
Delta R.T. 0.006 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

Tgt Ion:117 Resp: 177407  
Ion Ratio Lower Upper  
117 100  
82 57.4 45.4 68.0  
119 31.4 26.8 40.2

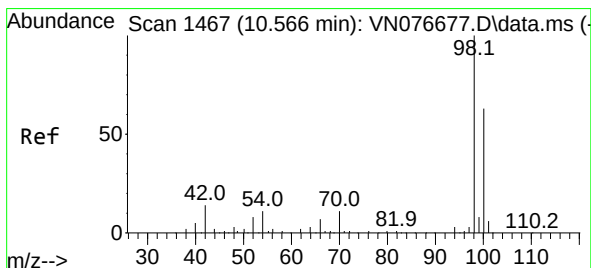
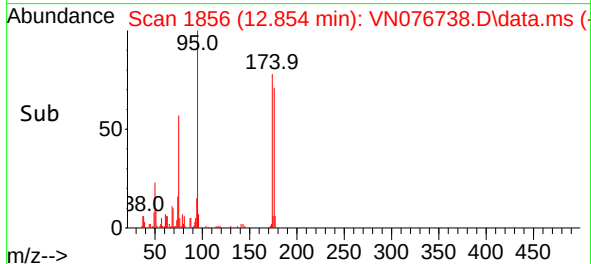
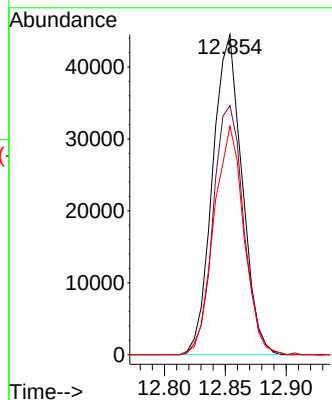
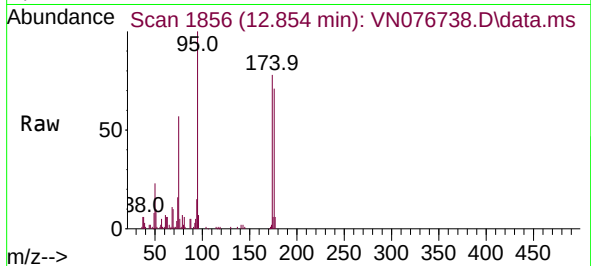




#60  
4-Bromofluorobenzene  
Concen: 23.880 ug/l  
RT: 12.854 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

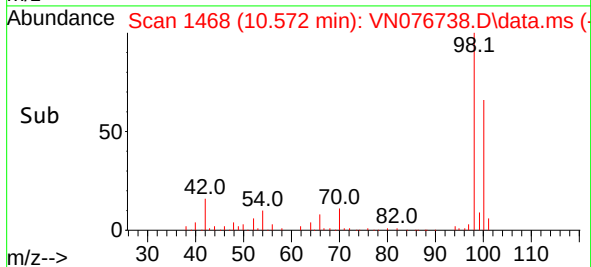
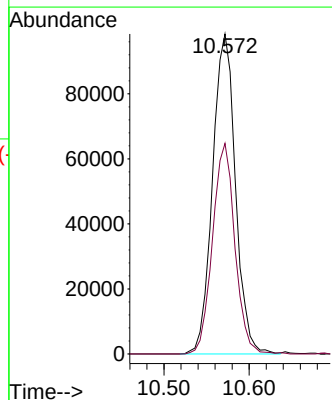
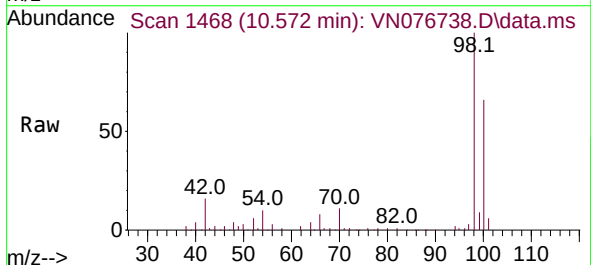
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-4RE

Tgt Ion: 95 Resp: 74934  
Ion Ratio Lower Upper  
95 100  
174 80.4 64.2 96.4  
176 72.8 61.4 92.0

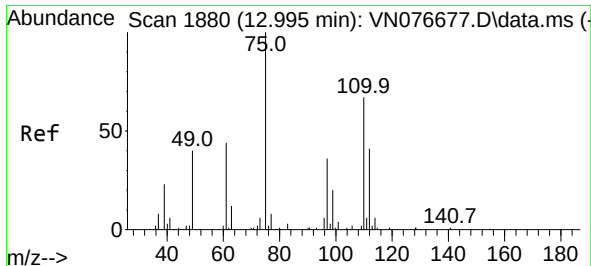


#63  
Toluene-d8  
Concen: 29.544 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.006 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

Tgt Ion: 98 Resp: 183586  
Ion Ratio Lower Upper  
98 100  
100 64.0 53.8 80.6



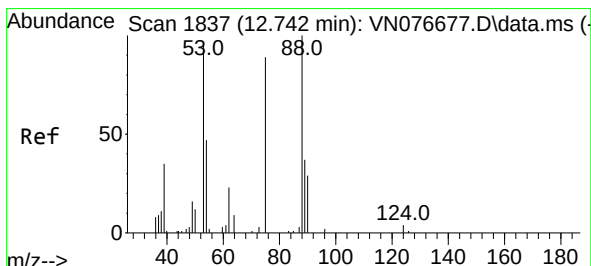
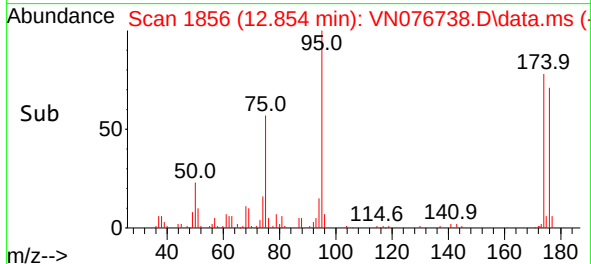
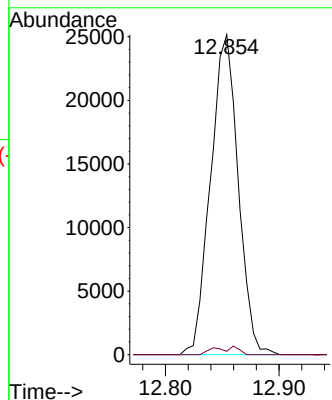
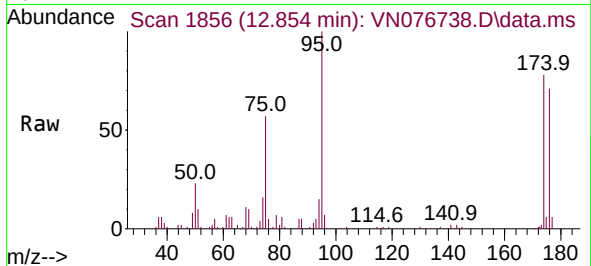




#72  
1,2,3-Trichloropropane  
Concen: 11.385 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. -0.141 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-4RE

Tgt Ion: 75 Resp: 42518  
Ion Ratio Lower Upper  
75 100  
77 0.9 0.0 332.6



#77  
t-1,4-Dichloro-2-butene  
Concen: 35.436 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.112 min  
Lab File: VN076738.D  
Acq: 17 Feb 2023 16:40

Tgt Ion: 75 Resp: 42518  
Ion Ratio Lower Upper  
75 100  
53 0.0 50.4 151.3#  
89 0.0 22.1 66.5#

